RODNEY H. STRAND, *Ph.D.*

TECHNOLOGY AND SCIENCE PROGRAMS:

For over 38 years Dr. Strand has been a manager of government-sponsored research and computational and statistical data centers at Oak Ridge National Laboratory (ORNL) and managed research and projects in an academic setting (The University of Tennessee, Knoxville); He has managed several small businesses and started and managed field offices for large companies. As a technical expert, he has provided expert guidance and support to developing environmental systems, nuclear fuel disposal, cost estimating, decommissioning, and project management and information systems design and development.

Dr. Strand has implemented Enterprise Management Systems for cost estimating, work package preparation, project scheduling and control, and waste management for decommissioning of nuclear facilities. He has also performed due diligence for the potential purchase of commercial nuclear facilities. As an invited lecturer on nuclear decommissioning, he presented technologies and methodologies to experts in the regulatory, facility, training, and health and safety areas of the nuclear program of Kazikstan. Dr. Strand has also served on technology review boards for the Department of Energy.

As an Associate Director and a Technical Director of Research Programs at The University of Tennessee, Knoxville, he directed research and development activities in the Information Systems and Energy and Environment arenas.

While at Martin Marietta, Dr. Strand built assessment and compliance programs for the Department of Energy and implemented those programs at numerous operating DOE field facilities for DOE Headquarters. As a consultant he has lead and supported the development of QA programs (USEC), converted QA programs to NQA-1, and performed independent assessments.

COMPLIANCE & ASSESSMENT EXPERIENCE:

- ***Lead assessor for Radiological Control and Training programs based upon OSHA and 10 CFR regulatory requirements,***
- ***Lead independent assessor "Independent Assessment of Waste Disposition Related to Ignitron and other Waste Processing Issues" and "Independent Assessment of Waste Disposition and Waste Processing Related to Free Liquids in C-746-U Landfill",***
- ***Designated DOE assessment expert in technical work plans, compliance issues, management progress, quality assurance, data management, D&D, and health and safety programs,***
- ***Three years as a successful lead assessor of DOE facilities and program management for the Environmental Restoration and Waste Management activities for the Southwest Region at DOE Headquarters,***
- ***Database and records management/chain of custody system for an NRC project evaluating the feasibility of a Salt Waste Repository for nuclear waste in Texas, and***
- ***Project manager for developing an integrated project management, waste tracking, and cost estimating system for BNFL Inc. D&D activities. This system uses actual cost information from D&D operations to estimate costs of new D&D activities. Decommissioning cost information was collected from commercial D&D activities and Big Rock Point, Recycling operations at ETTP, and historical and ongoing D&D operations within the U.K. The system also managed WBS activities, determined work progress and performance, and tracked wastes from cradle to grave.***
- ***Lead compliance assessor and project manager of the Radiological Protection Program for Bechtel Hanford at Hanford, Washington and for Radiological Worker II training at Fluor Daniel's Project Hanford. As NQA-1 lead assessor and team leader, performed document reviews, interviews, and analysis of entire Radiological Protection Programs for DOE's Restoration and M&I Contractor***

activities. These assessments were based upon 10 CFR 835 and DOE RadCon Manual requirements and included the review of several projects, discussions with representatives of members of the RadCon organization and its subcontractors, and analysis of the training program content and delivery methodology.

- ***The Department of Energy evaluated technologies for successfully Decontaminating and Decommissioning their nuclear reactors and other contaminated facilities. I served as an expert on this panel to evaluate existing technologies against emerging technologies to determine if the emerging technologies showed promise for improvement. Those technologies selected were compared to the existing technologies and specific recommendations made as to which to include in on-site field evaluations.***
- ***Lead developer of DOE HQ's Self-Assessment Program Plan and Implementation Plan. Formed and lead teams in the field as part of Program Assessment activities at Rocky Flats, Grand Junction, Kansas City, Sandia National Laboratories at Livermore, Mound in Ohio, Pantex in Texas, Nevada Operations, and DOE's San Francisco Field Office. Also the lead developer of detailed procedures used by DOE for Corrective Action Planning, Tracking and Trending Assessments, Lessons-Learned, and Assessment Conductance. Developed and presented summary presentations of the Assessment methodology used by DOE as well as the Lessons-Learned from the Assessments conducted above.***

CLEARANCES

DOE Q (Active) and DoD Top Secret (Active)

CERTIFICATIONS

NQA-1 lead auditor and current in certifications for Radiation Worker, HAZWOPER, and Nuclear Criticality Safety.

EDUCATION

University of Tennessee, Knoxville, Ph.D. Ecology, 1973

University of Utah: Graduate Study, Biostatistics, 1967-1969

University of California at Los Angeles, NASA Institute, Graduate Study Space Biology, 1967

Mayville State College, Mayville, North Dakota, B.S. (Cum Laude) Mathematics & Biological Science, 1967

AFFILIATIONS

American Nuclear Society, Member

American Society for Quality, Member

SAS Executive Steering Committee, SAS, Inc.

Two-time Chairman, SAS User's Group Conference

Former Chairman, American Statistical Association, Statistical Computing Section

Former Program Chairman, American Statistical Association, Statistical Computing Section

Founder and Executive Director, Michael Krupinski Memorial Foundation

International Rotary Foundation, Paul Harris Fellow